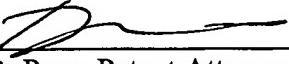




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INFORMATION DISCLOSURE STATEMENT
Examining Group 1614
Patent Application
Docket No. USF-T194XC1
Serial No. 10/784,309


Doran R. Pace, Patent Attorney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Stephen Jae Lee
Art Unit : 1614
Applicants : James Turkson, Richard Jove, Said Sebti, Andrew D. Hamilton
Serial No. : 10/784,309
Filed : February 20, 2004
Conf. No. : 2143
For : Peptidomimetic Inhibitors of STAT Activity and Uses Thereof

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed. However, Applicants have not submitted a copy of the U.S. patent cited on attached Form PTO/SB/08 pursuant to the Notice at 1276 OG 55 waiving the requirement set forth at 37 CFR 1.98(a)(2)(i).

The reference by Posternak *et al.* (1945), cited as R50 on the attached PTO/SB/08B, is written in a foreign language. In accordance with MPEP §609A(3), Applicants are submitting herewith a copy of the International Search Report from corresponding International Application No. PCT/US2004/005030 which was filed on February 20, 2004; the International Search Report cites the Posternak *et al.* (1945) reference therein.

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



Doran R. Pace
Patent Attorney
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Gainesville, FL 32614-2950

DRP/sl

Attachments: Form PTO/SB/08; copies of references cited therein; copy of International Search Report.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	1	of	6	Application Number	10/784,309
				Filing Date	February 20, 2004
				First Named Inventor	James Turkson
				Art Unit	1614
				Examiner Name	
				Attorney Docket Number	USF-T194XC1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
U1	US-4,179,337		12/18/1979	Davis et al.	All
U2	US-				
U3	US-				
U4	US-				
U5	US-				
U6	US-				
U7	US-				
U8	US-				
U9	US-				

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
F1	WO 98/12201 A1		03/26/1998	The University Court of the University of St. Andrews	All
F2	WO 00/44774 A2		08/03/2000	The University of South Florida	All
F3					
F4					
F5					
F6					
F7					

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	6	Application Number	10/784,309
				Filing Date	February 20, 2004
				First Named Inventor	James Turkson
				Group Art Unit	1614
				Examiner Name	
				Attorney Docket Number	USF-T194XC1

NON PATENT LITERATURE DOCUMENTS				
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	R1	AKIRA, S. "Roles of STAT3 defined by tissue-specific gene targeting" <i>Oncogene</i> , 2000, pp. 2607-2611, Vol. 19.		
	R2	BECKER, S. et al. "Three-dimensional structure of the Stat3β homodimer bound to DNA" <i>Nature</i> , July 9, 1998, pp. 145-151, Vol. 394.		
	R3	BERG, T. et al. "Small-molecule antagonists of Myc/Max dimerization inhibit Myc-induced transformation of chicken embryo fibroblasts" <i>PNAS</i> , March 19, 2002, pp. 3830-3835, Vol. 99, No. 6.		
	R4	BOWMAN, T. et al. "STATs in oncogenesis" <i>Oncogene</i> , 2000, pp. 2474-2488, Vol. 19.		
	R5	BOWMAN, T. et al. "Stat3-mediated Myc expression is required for Src transformation and PDGF-induced mitogenesis" <i>PNAS</i> , June 19, 2001, pp. 7319-7324, Vol. 98, No. 13.		
	R6	BROMBERG, J. et al. "Stat3 Activation Is Required for Cellular Transformation by v-src" <i>Molecular and Cellular Biology</i> , May 1998, pp. 2553-2558, Vol. 18, No. 5.		
	R7	BROMBERG, J. et al. "The role of STATs in transcriptional control and their impact on cellular function" <i>Oncogene</i> , 2000, pp. 2468-2473, Vol. 19.		
	R8	BUETTNER, R. et al. "Activated STAT Signaling in Human Tumors Provides Novel Molecular Targets for Therapeutic Intervention" <i>Clinical Cancer Research</i> , April 2002, pp. 945-954, Vol. 8.		
	R9	CATLETT-FALCONE, R. et al. "STAT proteins as novel targets for cancer therapy" <i>Current Opinion in Oncology</i> , 1999, pp. 490-496, Vol. 11.		
	R10	CATLETT-FALCONE, R. et al. "Constitutive Activation of Stat3 Signaling Confers Resistance to Apoptosis in Human U266 Myeloma Cells" <i>Immunity</i> , January 1999, pp. 105-115, Vol. 10.		
	R11	CHEN, X. et al. "Crystal Structure of a Tyrosine Phosphorylated STAT-1 Dimer Bound to DNA" <i>Cell</i> , May 29, 1998, pp. 827-839, Vol. 93.		
	R12	DARNELL, J. E., Jr. "STATs and Gene Regulation" <i>Science</i> , September 12, 1997, pp. 1630-1635, Vol. 277.		

Examiner Signature	Date Considered
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Sheet	3	of	6	Application Number	10/784,309
				Filing Date	February 20, 2004
				First Named Inventor	James Turkson
				Group Art Unit	1614
				Examiner Name	
				Attorney Docket Number	USF-T194XC1

NON PATENT LITERATURE DOCUMENTS					
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	R13	DARNELL, J. E., Jr. "Transcription Factors As Targets For Cancer Therapy" <i>Nat. Rev. Cancer</i> , October 2002, pp. 740-749, Vol. 2.			
	R14	EPLING-BURNETTE, P. K. et al. "Inhibition of STAT3 signaling leads to apoptosis of leukemic large granular lymphocytes and decreased Mcl-1 expression" <i>The Journal of Clinical Investigation</i> , February 2001, pp. 351-361, Vol. 107, No. 3.			
	R15	FRANK, D. A. "STAT Signaling in the Pathogenesis and Treatment of Cancer" <i>Molecular Medicine</i> , 1999, pp. 432-456, Vol. 5.			
	R16	GARCIA, R. et al. "Constitutive Activation of Stat3 in Fibroblasts Transformed by Diverse Oncoproteins and in Breast Carcinoma Cells" <i>Cell Growth & Differentiation</i> , December 1997, pp. 1267-1276, Vol. 8.			
	R17	GARCIA, R. et al. "Activation of STAT Transcription Factors in Oncogenic Tyrosine Kinase Signaling" <i>Journal of Biomedical Science</i> , 1998, pp. 79-85, Vol. 5.			
	R18	GARCIA, R. et al. "Constitutive activation of Stat3 by the Src and JAK tyrosine kinases participates in growth regulation of human breast carcinoma cells" <i>Oncogene</i> , 2001, pp. 2499-2513, Vol. 20.			
	R19	GIBSON, B. W. et al. "Liquid Secondary Ionization Mass Spectrometric Characterization of Two Synthetic Phosphotyrosine-Containing Peptides" <i>J. Am. Chem. Soc.</i> , 1987, pp. 5343-5348, Vol. 109.			
	R20	GOUILLEUX, F. et al. "Prolactin and Interleukin-2 Receptors in T Lymphocytes Signal through a MGF-STAT5-Like Transcription Factor" <i>Endocrinology</i> , 1995, pp. 5700-5708, Vol. 136, No. 12.			
	R21	GRANDIS, J. R. et al. "Constitutive activation of Stat3 signaling abrogates apoptosis in squamous cell carcinogenesis <i>in vivo</i> " <i>PNAS</i> , April 11, 2000, pp. 4227-4232, Vol. 97, No. 8.			
	R22	HIRANO, T. et al. "Roles of STAT3 in mediating the cell growth, differentiation and survival signals relayed through the IL-6 family of cytokine receptors" <i>Oncogene</i> , 2000, pp. 2548-2556, Vol. 19.			
	R23	HORVATH, C. M. "STAT proteins and transcriptional responses to extracellular signals" <i>TIBS</i> , October 2000, pp. 496-502, Vol. 25.			
	R24	JOHNSON, P. J. et al. "Overexpressed pp60 ^{c-src} Can Induce Focus Formation Without Complete Transformation of NIH 3T3 Cells" <i>Molecular and Cellular Biology</i> , May 1985, pp. 1073-1083, Vol. 5, No. 5.			

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	4	of	6	Application Number	10/784,309
				Filing Date	February 20, 2004
				First Named Inventor	James Turkson
				Group Art Unit	1614
				Examiner Name	
				Attorney Docket Number	USF-T194XC1

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	R25	JONES, G. et al. "Development and Validation of a Genetic Algorithm for Flexible Docking" <i>J. Mol. Biol.</i> , 1997, pp. 727-748, Vol. 267.			
	R26	KITAS, E. A. et al. "Synthesis of O-Phosphotyrosine-Containing Peptides. 3. Synthesis of H-Pro-Try(<i>P</i>)-Val-OH via Dimethyl Phosphate Protection and the Use of Improved Deprotection Procedures" <i>J. Org. Chem.</i> , 1990, pp. 4181-4187, Vol. 55.			
	R27	KOTENKO, S. V. et al. "Jak-Stat signal transduction pathway through the eyes of cytokine class II receptor complexes" <i>Oncogene</i> , 2000, pp. 2557-2565, Vol. 19.			
	R28	LIN, T. S. et al. "STAT signaling in the pathogenesis and treatment of leukemias" <i>Oncogene</i> , 2000, pp. 2496-2504, Vol. 19.			
	R29	LIN, J. et al. "The role of Stat5a and Stat5b in signaling by IL-2 family cytokines" <i>Oncogene</i> , 2000, pp. 2566-2576, Vol. 19.			
	R30	MERRIFIELD R. B. "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide" <i>Am. Chem. Soc.</i> , July 20, 1963, pp. 2149-2152, Vol. 85.			
	R31	ROJAS, M. et al. "Genetic engineering of proteins with cell membrane permeability" <i>Nature Biotechnology</i> , April 1998, pp. 370-375, Vol. 16.			
	R32	SASSE, J. et al. "Mutational Analysis of Acute-Phase Response Factor/Stat3 Activation and Dimerization" <i>Molecular and Cellular Biology</i> , August 1997, pp. 4677-4686, Vol. 17, No. 8.			
	R33	SCHINDLER, C. et al. "Transcriptional Responses to Polypeptide Ligands: The JAK-STAT Pathway" <i>Annu. Rev. Biochem.</i> , 1995, pp. 621-651, Vol. 64.			
	R34	SEIDEL, H. M. et al. "Spacing of palindromic half sites as a determinant of selective STAT (signal transducers and activators of transcription) DNA binding and transcriptional activity" <i>Proc. Natl. Acad. Sci. USA</i> , March 2, 1995, pp. 3041-3045, Vol. 92.			
	R35	SEIDEL, H. M. et al. "Pharmaceutical intervention in the JAK/STAT signaling pathway" <i>Oncogene</i> , 2000, pp. 2645-2656, Vol. 19.			
	R36	SHUAI, K. et al. "A Single Phosphotyrosine Residue of Stat91 Required for Gene Activation by Interferon- γ " <i>Science</i> , September 24, 1993, pp. 1744-1746, Vol. 261.			

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Sheet	5	of	6	Application Number	10/784,309
				Filing Date	February 20, 2004
				First Named Inventor	James Turkson
				Group Art Unit	1614
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				Attorney Docket Number	USF-T194XC1

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	R37	SHUAI, K. et al. "Interferon Activation of the Transcription Factor Stat91 Involves Dimerization through SH2-Phosphotyrosyl Peptide Interactions" <i>Cell</i> , March 11, 1994, pp. 821-828, Vol. 76.			
	R38	SMITHGALL, T. E. et al. "Control of myeloid differentiation and survival by Stats" <i>Oncogene</i> , 2000, pp. 2612-2618, Vol. 19.			
	R39	SONG, J. I. et al. "STAT signaling in head and neck cancer" <i>Oncogene</i> , 2000, pp. 2489-2495, Vol. 19.			
	R40	SONG, L. et al. "Activation of Stat3 by receptor tyrosine kinases and cytokines regulates survival in human non-small cell carcinoma cells" <i>Oncogene</i> , 2003, pp. 4150-4165, Vol. 22.			
	R41	STARK, G. R. et al. "How Cells Respond to Interferons" <i>Annu. Rev. Biochem.</i> , 1998, pp. 227-264, Vol. 67.			
	R42	TURKSON, J. et al. "Stat3 Activation by Src Induces Specific Gene Regulation and Is Required for Cell Transformation" <i>Molecular and Cellular Biology</i> , May 1998, pp. 2545-2552, Vol. 18, No. 5.			
	R43	TURKSON, J. et al. "Requirement for Ras/Rac1-Mediated p38 and c-Jun N-Terminal Kinase Signaling in Stat3 Transcriptional Activity Induced by the Src Oncoprotein" <i>Molecular and Cellular Biology</i> , November 1999, pp. 7519-7528, Vol. 19, No. 11.			
	R44	TURKSON, J. et al. "STAT proteins: novel molecular targets for cancer drug discovery" <i>Oncogene</i> , 2000, pp. 6613-6626, Vol. 19.			
	R45	TURKSON, J. et al. "Phosphotyrosyl Peptides Block Stat3-mediated DNA Binding Activity, Gene Regulation, and Cell Transformation" <i>The Journal of Biological Chemistry</i> , November 30, 2001, pp. 45443-45455, Vol. 276, No. 48.			
	R46	WAGNER, B. et al. "The SIF binding element confers sis/PDGF inducibility onto the c-fos promoter" <i>The EMBO Journal</i> , 1990, pp. 4477-4484, Vol. 9, No. 13.			
	R47	YAMAUCHI, K. et al. "Phosphatidylinositol 3-Kinase Functions Upstream of Ras and Raf in Mediating Insulin Stimulation of c-fos Transcription" <i>The Journal of Biological Chemistry</i> , July 15, 1993, pp. 14597-14600, Vol. 268, No. 20.			
	R48	YU, C. et al. "Enhanced DNA-Binding Activity of a Stat3-Related Protein in Cells Transformed by the Src Oncoprotein" <i>Science</i> , July 7, 1995, pp. 81-83, Vol. 269.			

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**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

6

of

6

Complete if Known

Application Number	10/784,309
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	R49	ZHANG, Y. et al. "Activation of Stat3 in v-Src-transformed Fibroblasts Requires Cooperation of Jak1 Kinase Activity" <i>The Journal of Biological Chemistry</i> , August 11, 2000, pp. 24935-24944, Vol. 275, No. 32.
	R50	POSTERNAK, T. et al. "De la protection contre l'hydrolyse enzymatique exercée par les groupes phosphoryles II." <i>Helv. Chim. Acta.</i> , 1945, pp. 1258-1270, Vol. 28.
	R51	
	R52	
	R53	
	R54	
	R55	
	R56	
	R57	
	R58	
	R59	
	R60	

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